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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/494,282	01/18/2000	Sergey A. Selifonov	02-028930US	3228

22434 7590 09/18/2002
BEYER WEAVER & THOMAS LLP
P.O. BOX 778
BERKELEY, CA 94704-0778

[REDACTED] EXAMINER

ZHOU, SHUBO

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

1631
DATE MAILED: 09/18/2002

3A

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/494,282	SELIFONOV ET AL.
	Examiner Shubo "Joe" Zhou	Art Unit 1631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 June 2002.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 89-104 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 89-104 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s) _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. | 6) <input type="checkbox"/> Other: _____ |

R striction/Election Requir m nt

Applicants' request for a Continued Prosecution Application (CPA), filed 6/24/02, under 37 CFR 1.53(d) based on prior patent Application No. 09/494,282, is accepted and a CPA has been established.

Upon **consideration** of the claims 89-104 newly added at the filing of CPA, it is noted that the claims encompass multiple inventions that are patentably distinct as set forth below.

Restriction to one of the following invention groups is required under 35 U.S.C. § 121:

1. Claims 89-98, drawn to method of generating a set of polynucleotide variants by recombination involving both *in silico* steps and *in vitro* experimental steps, classified in Class 435, subclass 91.1.

2. Claims 99-101, drawn to methods of identifying a set of oligonucleotides involving *in silico* steps but not *in vitro* experimental steps, classified in Class 702, subclass 19.

3. Claims 102-104, drawn to a computer program product, classified in Class 700, subclass 90.

The inventions are independent and/or distinct, each from the other because of the following reasons.

The inventions of groups 1-2 and group 3 are independent distinct inventions because they are directed to separate subject matter regarding the critical limitations therein. For groups 1-2, the claims are directed to methods of manipulating nucleic acids but group 3 is directed to computer system, which is classified in different class of patentable subject matter. Additionally, methods of manipulating nucleic acids and computer system have been most commonly characterized and published separately in the literature, thus significantly adding to the search burden if the groups were examined together as compared to being searched separately.

The inventions of groups 1 and 2 are separate because they are directed to separate methods of producing different products, which are classified in different class of patentable subject matter. Group 1 is directed to a process of using computer and laboratory procedures to generate a set of polynucleotide variants. Group 2, however, is directed to a method of only using computer procedures to identify a set of oligonucleotides for use in a physical recombination. The inventions of groups 1 and 2 involves distinct step, use different reagents and produce different products. Furthermore, the different methods of groups 1 and 2 have been most commonly characterized and published separately in the literature, thus significantly adding to the search burden if the groups were examined together as compared to being searched separately.

Because these inventions are independent/distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR § 1.143).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The CM1 Fax Center number is either (703) 308-4242 or (703)305-3014.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to:

Shubo "Joe" Zhou, Ph.D., whose telephone number is (703) 605-1158. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (703) 308-4028.

Any inquiry of a general nature or relating to the status of this application should be directed to Patent Analyst Tina Plunkett whose telephone number is (703)-305-3524, or to the Technical Center receptionist whose telephone number is (703) 308-0196.

MICHAEL BORIN, PH.D
PRIMARY EXAMINER

S. "Joe" Zhou, Ph.D. 
Patent Examiner

